



BACHELOR OF INNOVATION in COMPUTER SCIENCE SAMPLE PROGRAM

The following document is intended for student use only. It represents the suggested order and semesters in which students should take courses to graduate within 4 years. Since each student is different this listing should only be considered a guide. *Please refer to your Degree Audit Report for elective options.* The BI Computer Science program requires a minimum of 128 credit hours to complete. Students must have a minimum 2.0 GPA in all CS course work taken, and a minimum 2.0 GPA in all cumulative course work.

Courses marked with an * are often available in the summer. Courses marked with ** are ONLY offered in that semester. Please note that CS students may want to offload some of the heavier semesters making up the hours by taking courses during the summer semester and still graduate in 4 years.

FRESHMAN YEAR

| FALL SEMESTER (16 credit hours) | SPRING SEMESTER (16 credit hours) |
|---|--|
| *CS 1150 Principles of Computer Science – 3 *ENGL 1310 Rhetoric & Writing I – 3 ENTP 1000 Intro. to Entrepreneurship – 3 *MATH 1350 Calculus I – 4 ID 1010 BI Freshman Seminar approved by program <u>OR</u> Innovation Elective approved by faculty advisor – 3 | *CS 1450 Data Structures & Algorithms – 3 *CS 2060 Programming with C – 3 INOV 1010 The Innovation Process – 3 *MATH 1360 Calculus II – 4 Cross Discipline Core Course – 3 |

SOPHOMORE YEAR

| FALL SEMESTER (16 credit hours) | SPRING SEMESTER (17 credit hours) |
|--|---|
| CS 2080 Programming with UNIX – 2 CS 2160 Computer Org. & Assembly Lang. Prog. – 3 **BLAW 2010 Business and Intellectual Property Law – 3 **CS 1300 Computational Linear Algebra – 3 Basic Science (PES,CHEM, BIOL) with lab – 5 | CS 3060 Object-Oriented Programming Using C++ – 3 <u>OR</u> CS 3020 Adv Object Tech Using C#/ .NET – 3 INOV 2100 Tech. Writing, Proposals and Presentation – 3 INOV 2010 Innovation Team: Analyze & Report – 3 *MATH 2150 Discrete Mathematics – 3 Basic Science (PES,CHEM, BIOL) with Lab – 5 |

JUNIOR YEAR

| FALL SEMESTER (15 credit hours) | SPRING SEMESTER (17 credit hours) |
|--|--|
| **CS 3160 Concepts of Programming Languages – 3 **CS 4420 Database Systems I – 3 **CS 4220 Computer Networks – 3 Cross Discipline Core Course – 3 Cross Discipline Core Course – 3 | **CS 3300 Software Engineering – 3 **CS 4200 Computer Architecture I – 3 **ECE 3610 Engineering Probability & Stats – 3 <u>OR</u> *QUAN 2010 Business Statistics – 3 INOV 3010 Innovation Team: Research & Execute – 3 Cross Discipline Core Course – 3 *Open Elective – 2 |

SENIOR YEAR

| FALL SEMESTER (15 credit hours) | SPRING SEMESTER (16 credit hours) |
|---|--|
| **CS 4500 Operating Systems I – 3 **CS 4720 Design & Analysis of Algorithms – 3 *CS Professional Elective Course (3000+) – 3 Cross Discipline Core Course – 3 Open Elective – 3 | **CS 3050 Social & Ethical Implications of Computing – 1 *CS Professional Elective Course (3000+) – 3 *CS Elective (CS 4000–5999) – 3 **ENTP 4500 Entrepreneurship and Strategy – 3 INOV 4010 Innovation Team: Design & Lead – 3 *Open Elective – 3 |

CROSS DISCIPLINE CORES – CHOOSE ONE

BUSINESS

| COURSE NUMBER & TITLE | HRS | PREREQUISITES/COREQUISITES |
|---|-----------|------------------------------|
| ECON 1010 Intro to Microeconomics | 3 | |
| ACCT 2010 Intro to Financial Accounting | 3 | Sophomore or higher standing |
| MGMT 3300 Introduction to Management & Organization | 3 | |
| Choose two from: | 6 | |
| OPTM 3000 Fundamentals of Operations Management | | Permission number needed |
| MKTG 3000 Principles of Marketing | | Permission number needed |
| FNCE 3050 Basic Finance | | Permission number needed |
| TOTAL | 15 | |

CREATIVE COMMUNICATION

| COURSE NUMBER & TITLE | HRS | COURSE NUMBER & TITLE | HRS |
|-------------------------------------|-----------|--|----------|
| COMM 3440 Leadership Communication | 3 | | |
| Choose one MUS course | 3 | | |
| Choose one from: | 3 | Choose two from: | 6 |
| VA 1010 Beginning Studio 2D | | MGMT 3900 Improving Personal and Team Creativity | |
| VA 1020 Beginning Studio 3D | | COMM 1020 Interpersonal Communication | |
| VA 1040 Beginning Drawing | | COMM 2010 Oral Communication in the Workplace | |
| VA 2060 Two-Dimensional Topics | | COMM 2250 Introduction to Film and Video | |
| VA 2070 Three-Dimensional Topics | | COMM 3100 Directing for Film and Television | |
| VA 2100 Digital Imaging | | COMM 3280 Intercultural Communication | |
| VA 2110 Introduction to Photography | | COMM 4220 Creative Communication | |
| VA 2150 Digital Photography | | ENGL 2050 Introduction to Creative Writing – Fiction | |
| Total | 15 | | |

GLOBALIZATION

| COURSE NUMBER & TITLE | HRS | PREREQUISITES/COREQUISITES | HRS |
|--|-----|--|-----------|
| Foreign Language | | | 6 |
| Passing 2 semesters of the same foreign language, at a level appropriate to the student, fulfills this requirement. 4 years of a foreign language in HS fulfills this requirement. Demonstrating proficiency to the advisor fulfills the req. If the requirement is fulfilled in less than 6 credit hours, the remaining credit hours must be taken from the list below. | | | |
| Choose three courses from: | | | 9 |
| ANTH 1040 Intro to Cultural Anthropology | | INTB 4800 International Management | |
| ANTH 3040 Women Around the World | | MKTG 4900 International Marketing | |
| COMM 3280 Intercultural Communication | | PHIL 3090 Philosophies of Asia | |
| ECON 3590 Globalization | | PHIL 3100 Religions Around the World | |
| ECON 3710 Comparative Economic Systems | | PSC 1010 Introduction to Global Politics | |
| FNCE 4400 International Financial Management | | PSC 4210 International Politics | |
| GES 1980 World Regional Geography | | PSC 4590 Globalization | |
| GES 1990 Intro to Human Geography | | SOC 4380 Globalization and Development | |
| GES 3400 Geopolitics | | WEST 3040 Women Around the World | |
| INTB 3600 International Business | | WEST 3480 Global Women's Issues | |
| Total | | | 15 |